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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,078	08/30/2005	Toshihiko Ura	061352-0094	2535
20277	7590	09/29/2006	EXAMINER	
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			TSIDULKO, MARK	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/528,078	<b>Applicant(s)</b> URA, TOSHIHIKO	
	<b>Examiner</b> Mark Tsidulko	<b>Art Unit</b> 2875	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 30 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Specification*

The disclosure is objected to because of the following informalities: it is unclear what does Applicant intend by "*front side flame FC*" (page 11, lines 3 and 6).

Appropriate correction is required.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakayoshi et al. (US 2006/0152944) in view of Lin (US 2005/0259443) and Wu (US 2005/0047111).

Referring to Claim 1 Nakayoshi et al. disclose (Figs.1, 2) a backlight device having a light guide plate [18] a light source [22] and housing including a front frame [14] and rear frame [26].

Nakayoshi et al. disclose the instant claimed invention except for a reflector enclosing a light source and an opening in the housing.

Lin discloses (Fig.1) a display device having a reflector [18] enclosing a light source [16]. This structure allows directing all light rays to the light guide.

Wu discloses (Fig.5) a hole [265b] provided in the frame [260] for heat dissipation (page 2, [0025]). It is understood, that heat-dissipating holes could be located at any desired place of the housing, depending on necessity and structure of the device.

Referring to Claims 2, 3 Nakayoshi et al. (Fig.2) a convex portion between the outwardly bending flange (short flange having hole) and inwardly bending flange (longer flange at the center of the side of the frame [14]), forming step between these two flanges.

Referring to Claim 3 Nakayoshi et al. (Fig.2)

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the device of Nakayoshi et al. having reflector, as taught by Lin, in order to prevent leakage of the light and provide heat dissipating opening, as taught by Wu, in order to prevent overheating of the device.

Claims 4, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakayoshi et al. (US 2006/0152944) in view of Lin (US 2005/0259443) and Buelow et al. (US 2004/0184284).

Nakayoshi et al. disclose (Figs.1, 2) a LCD panel [10] located on a front of a lighting unit having a light guide plate [18] a light source [22] and housing including a front frame [14] and rear frame [26].

Nakayoshi et al. disclose the instant claimed invention except for a reflector enclosing a light source and insulative thermally conductive material of the housing.

Lin discloses (Fig.1) a display device having a reflector [18] enclosing a light source [16]. This structure allows directing all light rays to the light guide.

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Buelow et al. disclose (Fig.1) a lighting device having housing [14] made of thermally conductive plastic (page 2, [0022]), which, as well known in the art, is an electric insulative material.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the device of Nakayoshi et al. having reflector, as taught by Lin, in order to prevent leakage of the light, and provide frame of the device of Nakayoshi et al. made of thermally conductive plastic, in order to prevent the user from electrical shock and to prevent overheating of the device

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (571)272-2384. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for all communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M.T.

September 14, 2006



Sandra O'Shea  
Supervisory Patent Examiner  
Technology Center 2800